Earth and Space Science for Grades 7-12 (Ed 612.24) Program Approval Rating Matrix for REVIEWER

Institution Name:	Date of Visit:				
Ed 612.24 <u>Earth and Space Science</u>	e For Grades 7-12.				
Directions to the Reviewer : At the e Program Approval Recommendation 2, 3, and 4. The Rubric for determini	Form to recommend a level of app	roval for the progr	am. Please follow		
ON STANDARD	APPROACHING ST	APPROACHING STANDARD		STANDARD NOT MET	
Candidates' opportunities address all the competencies specified for the individual certification areas	Candidates' opportunities address most of Candidates' opportunit		rtunities address some or none of specified for the individual		
Ed 612.24 <u>Earth and Space Science</u> For Grades 7-12	RATING ON STANDARD or APPROACHING STANDARD or STANDARD NOT MET	[Req	ONALE uired] ewed evidence that his rating	RECOMMENDATION [Required if rating is below 'on standard'] SUGGESTION [Optional for 'on standard' or 'approaching standard'] COMMENDATION [Optional]	
(a) A teacher preparation program in e	arth and space science for grades 7-1	2 shall meet the sci	ence program genera	- 1	
(b) The earth and space science progra through a combination of academic	m for grades 7-12 shall provide the to and supervised practical experience			etencies and knowledge gained	
(1) In the area of fundamental co	ontent knowledge, the candidate shal	l have the ability to:			
 a. Comprehend, apply, evaluate, analyze, and synthesize knowledge of: 1. Structure of earth systems, such as the geosphere, 					

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atmosphere, hydrosphere, and biosphere, including the properties, measurements, and classification of their constituent materials and structures;			
2. Changes in earth systems to include the geosphere, atmosphere, hydrosphere, and biosphere, including the gradual and catastrophic changes that occur in those systems at different spatial and temporal ranges, such as tectonic activity, weather and climate, population dynamics, and the evolution of life;			
3. Relationships between earth systems to include the geosphere, atmosphere, hydrosphere, and biosphere, including, but not limited to the flow of energy and matter between and among those systems;			
4. The origin, evolution, properties, and behavior of planetary and geologic structures, including the use of relative and absolute dating techniques to			

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derive systems of chronological dating such as the geologic time scale;			
5. The origin, evolution, properties and behavior of the universe, including energy, matter, and astronomical objects;			
6. Fundamentals of investigating and interrelating the fields of study within earth space sciences, including geology, oceanography, meteorology, and astronomy;			
7. The impact of human activity on earth systems, including the geosphere, atmosphere, hydrosphere, and biosphere;			
8. The application of earth space sciences relating to societal issues such as environmental quality, personal and community health and welfare, and business and industry; and			
9. The application of earth space sciences relating to the sources, limits, and management of renewable and nonrenewable natural resources;			

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b. Apply knowledge of Earth space sciences through inquiry, field experiences, laboratory investigations, and the use of scientific models and scientific research; and c. Understand and be able to apply mathematical concepts and techniques, including, but not limited to data analysis and modeling as they			
relate to earth and space systems, at least through the level of college statistics.			

Reviewer's Recommended Rating for Earth and Space Science for Grades 7-12 Program Approval based on a review of both Ed 610.02 Professional Education and Ed 612.24:

REVIEWER INFORMATION:		
PRINT NAME:		
SIGNATURE:	DATE:	